

FIG. 1A

FIG. 1

09/622112-12000

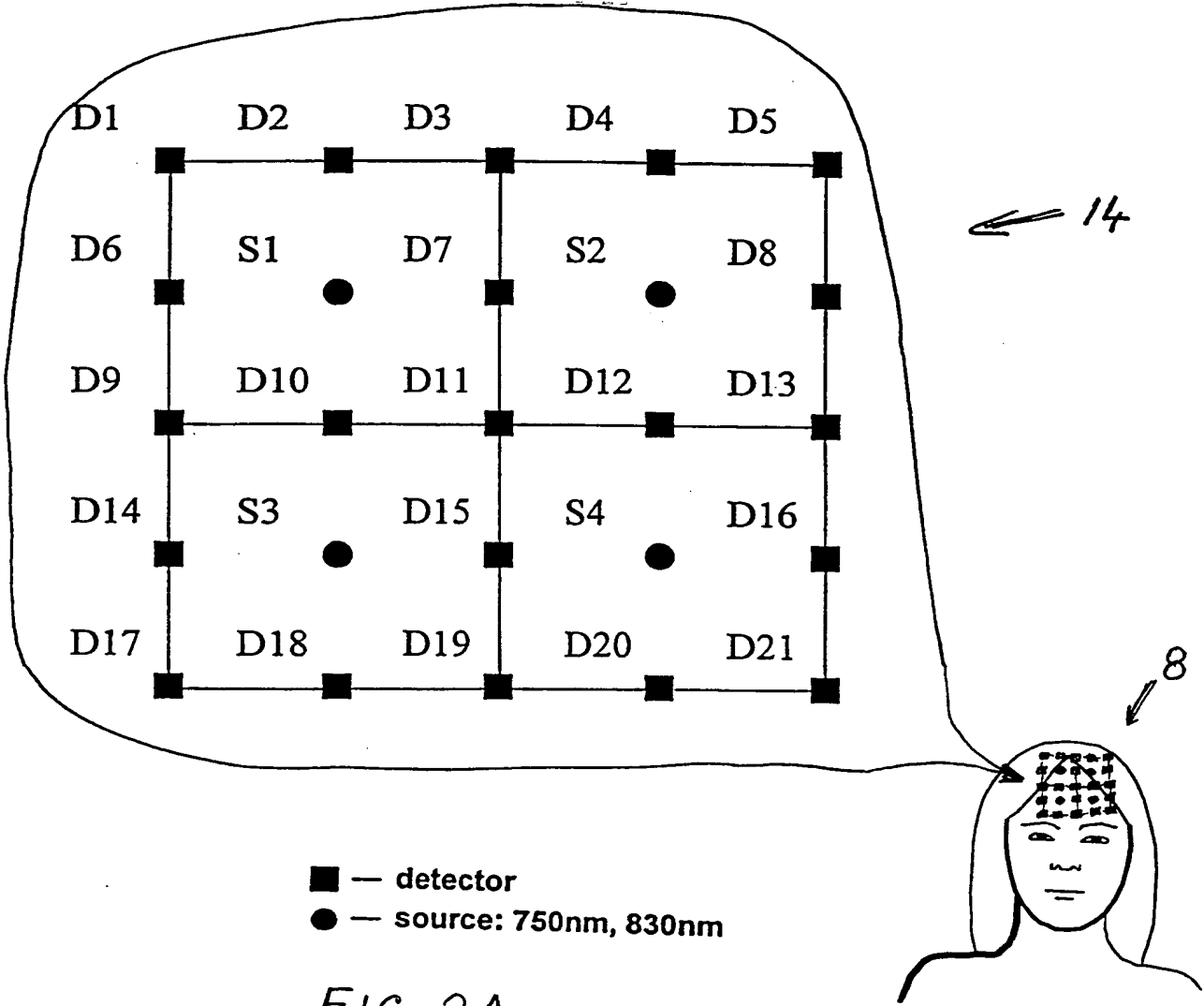


FIG. 2A

FIG. 2

09/622112-12000

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50 MHz SINGLE WAVELENGTH PMS/PHASE ARRAY IMAGE SYSTEM

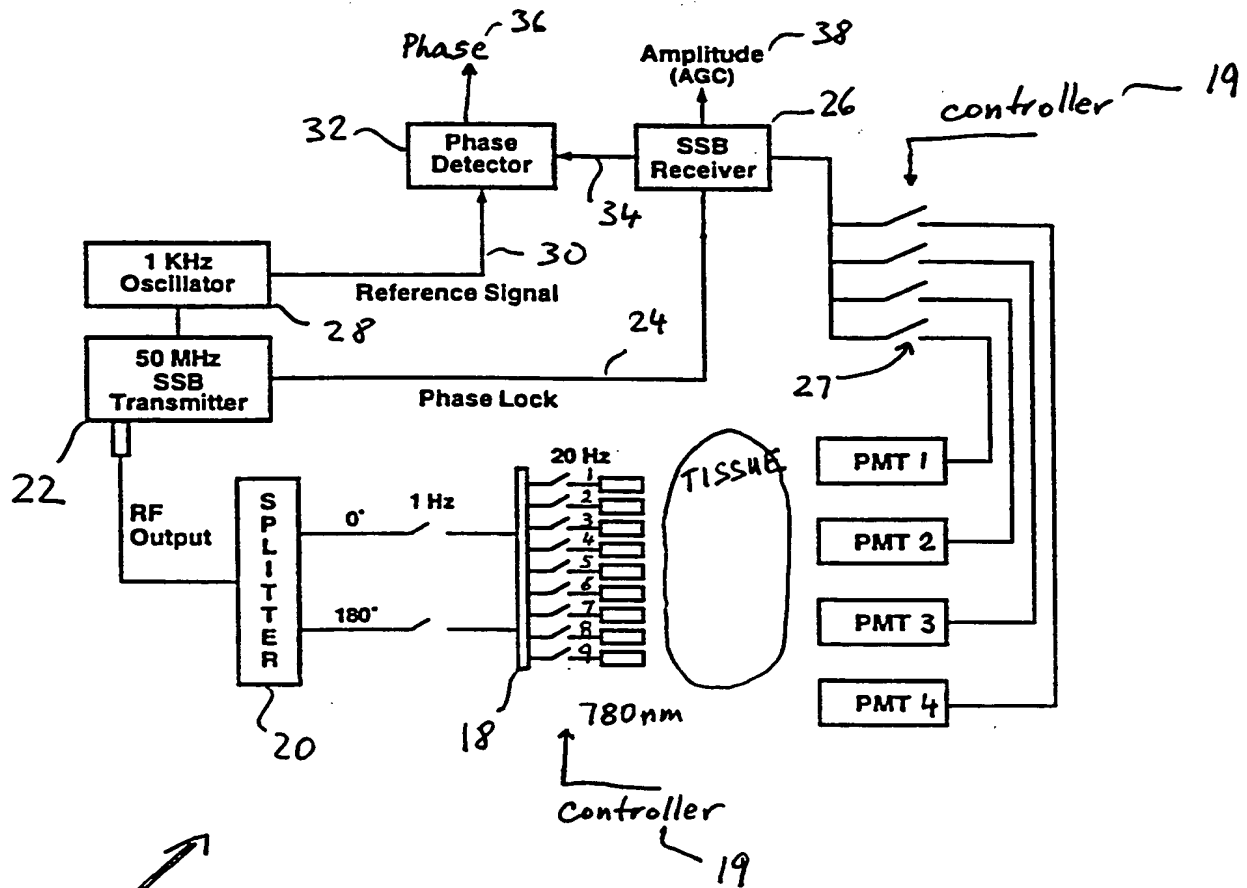


FIG. 3

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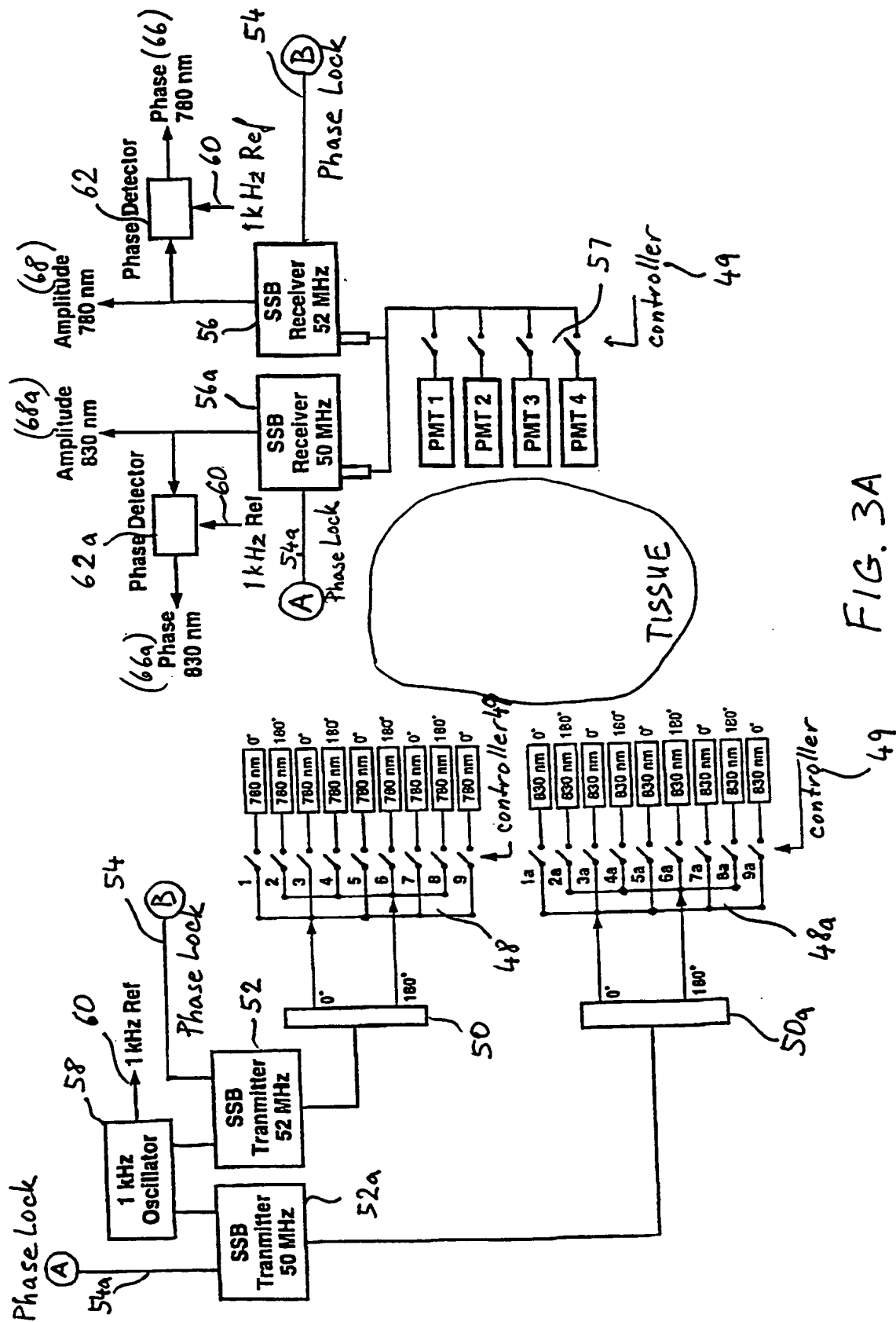


FIG. 3A

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





	Sources	Detectors
	1, 2, 1a, and 2a	1
	2, 3, 2a, and 3a	2
	4, 5, 4a, and 5a	1
	5, 6, 5a, and 4a	2
	7, 8, 7a, and 8a	3
	8, 9, 8a, and 9a	4
	4, 5, 4a, and 5a	3
	5, 6, 5a, and 6a	4
	7, 8, 7a and 8a	3

FIG. 3B

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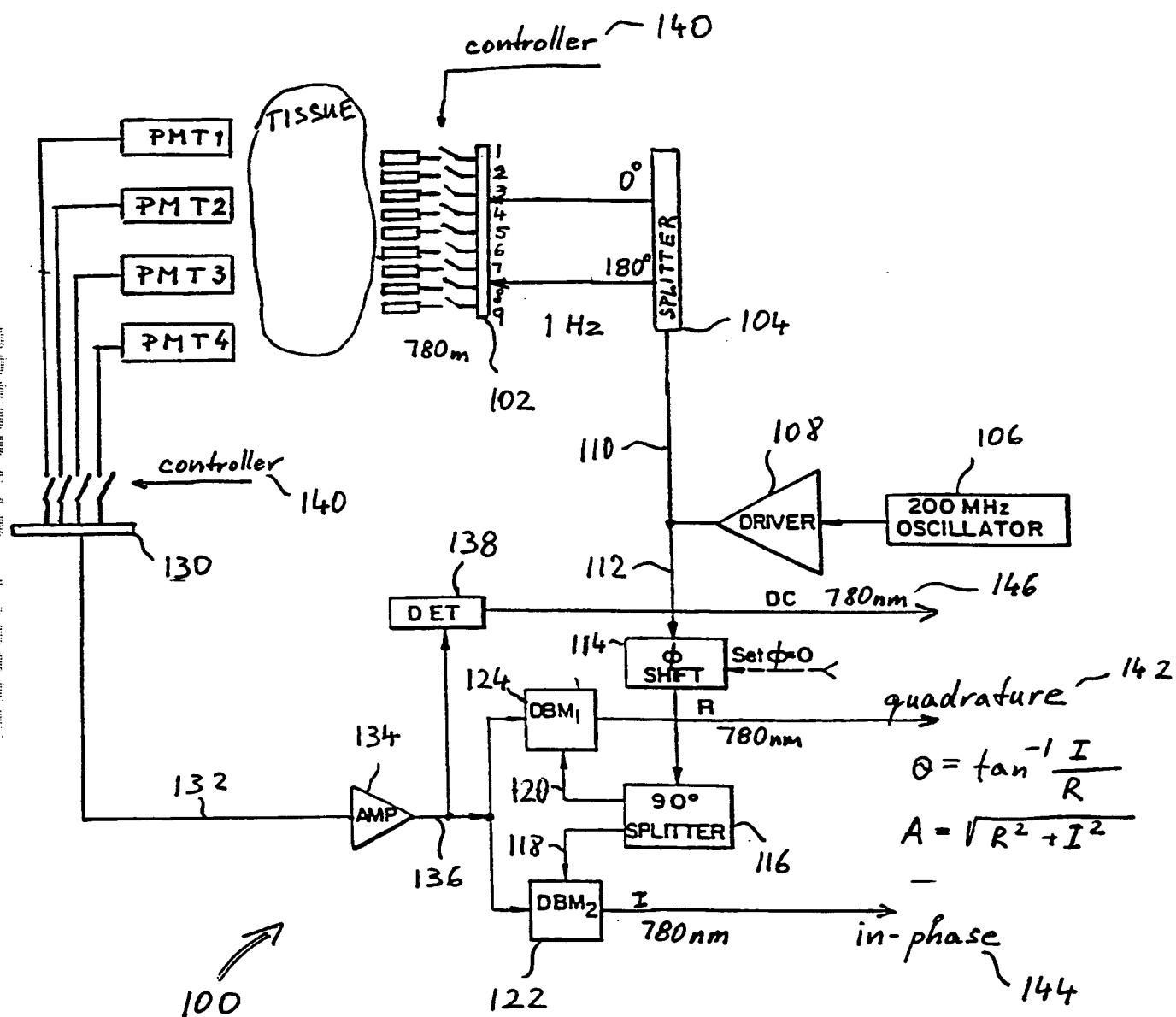
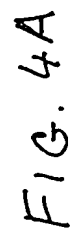
[illegible]

FIG. 4



**Homodyne phase cancellation imager
(one 2S ID part of imager)**

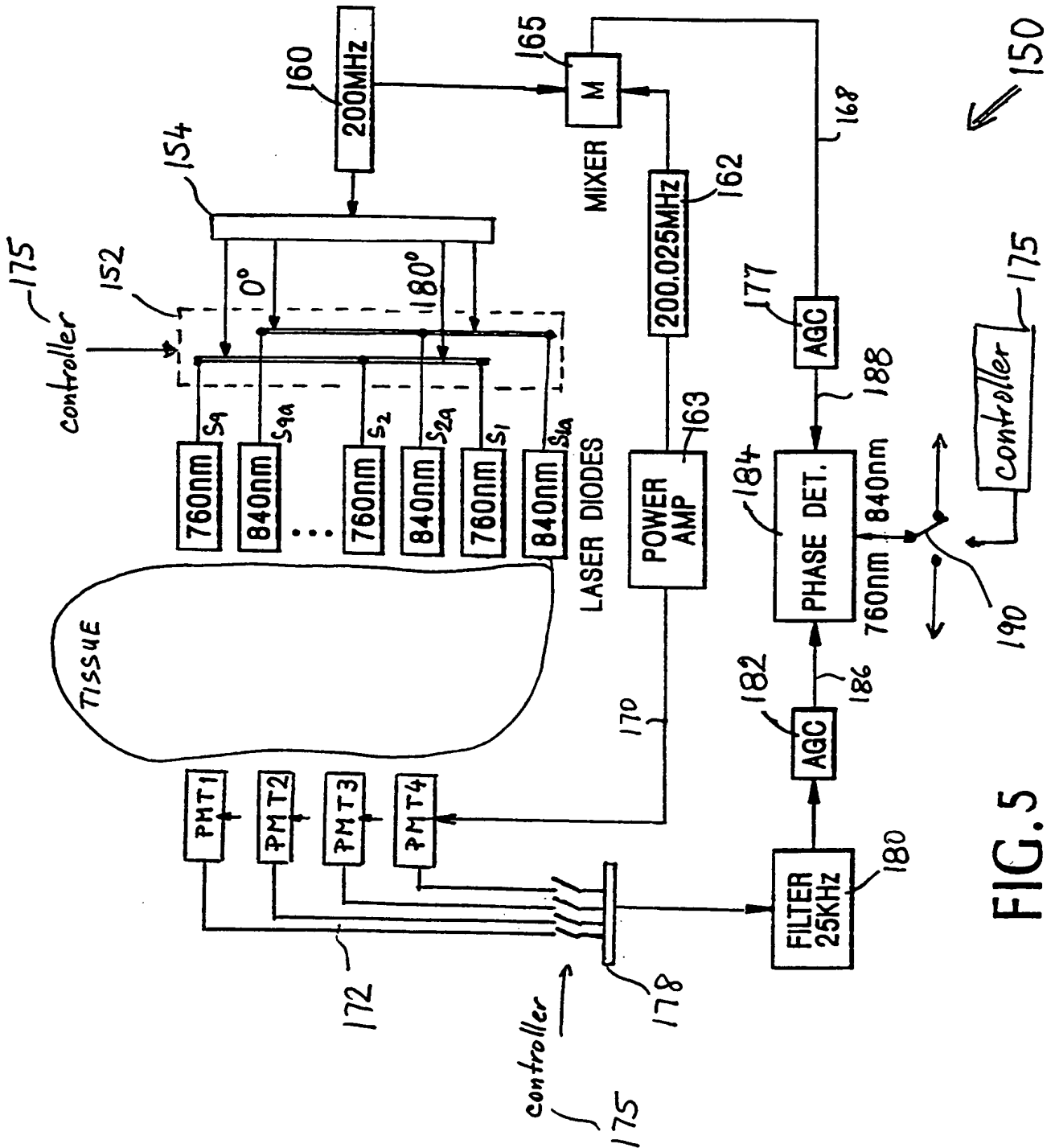


FIG. 5

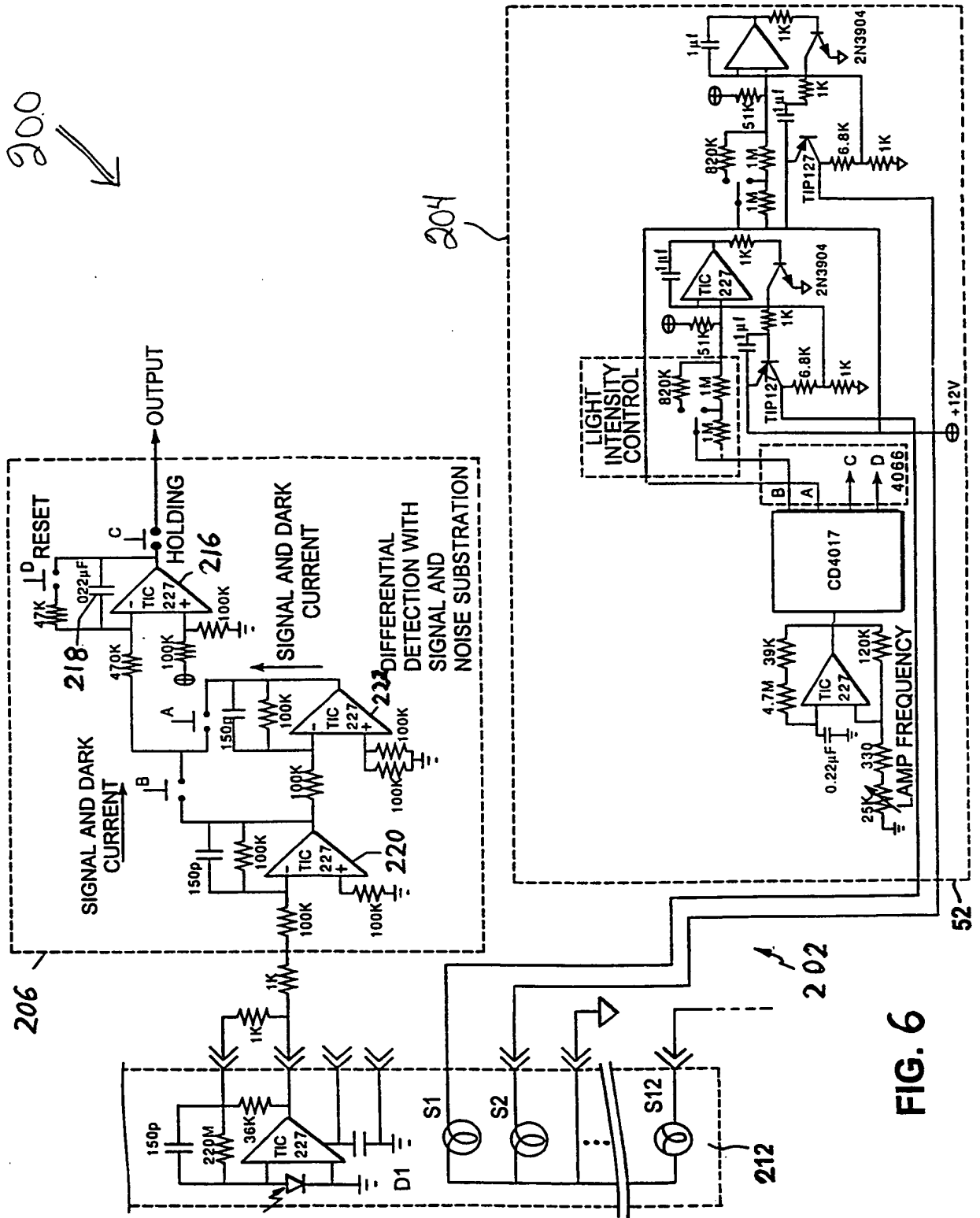
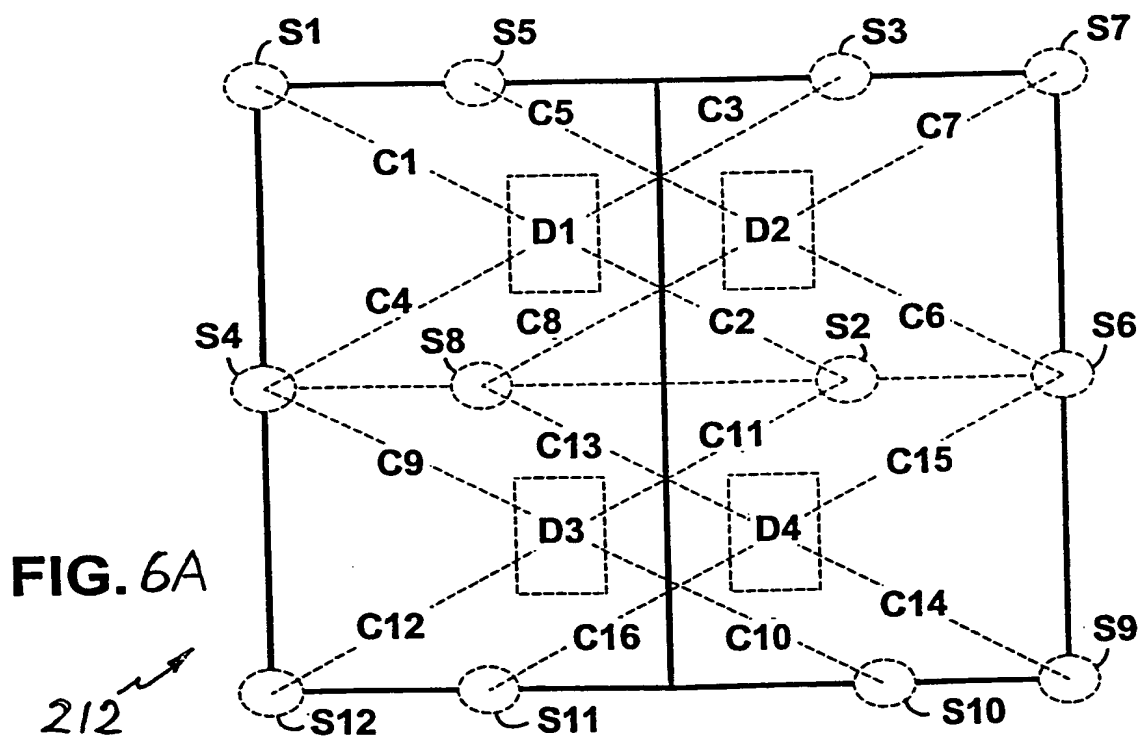
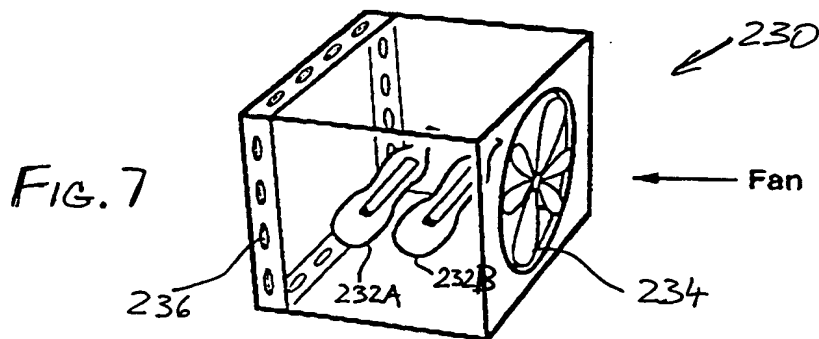


FIG. 6

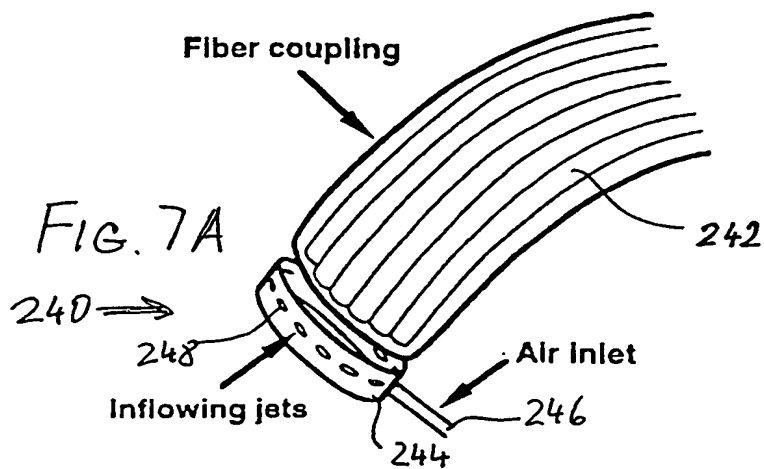


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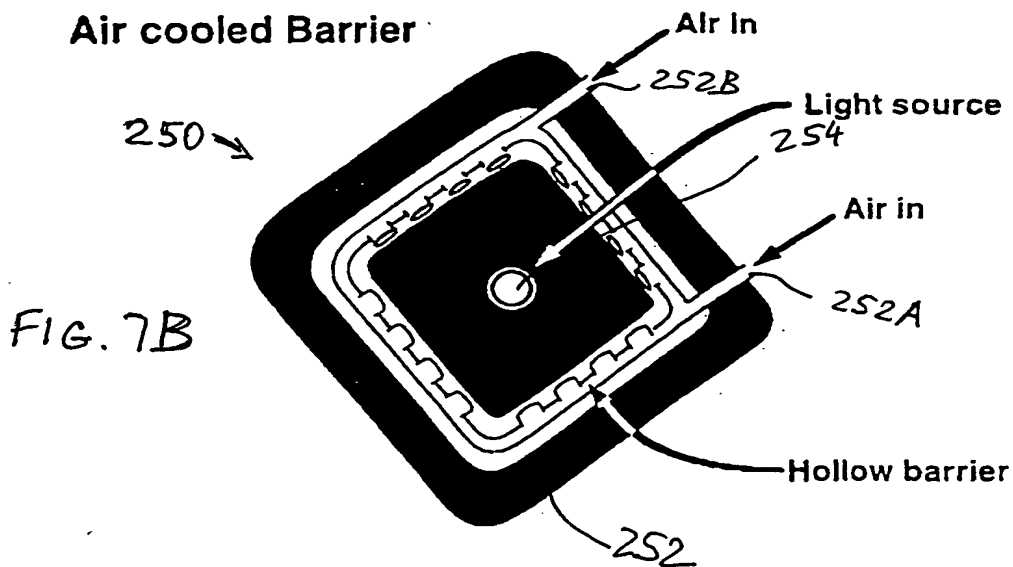
Air cooled lamp



Air cooled light guide



Air cooled Barrier



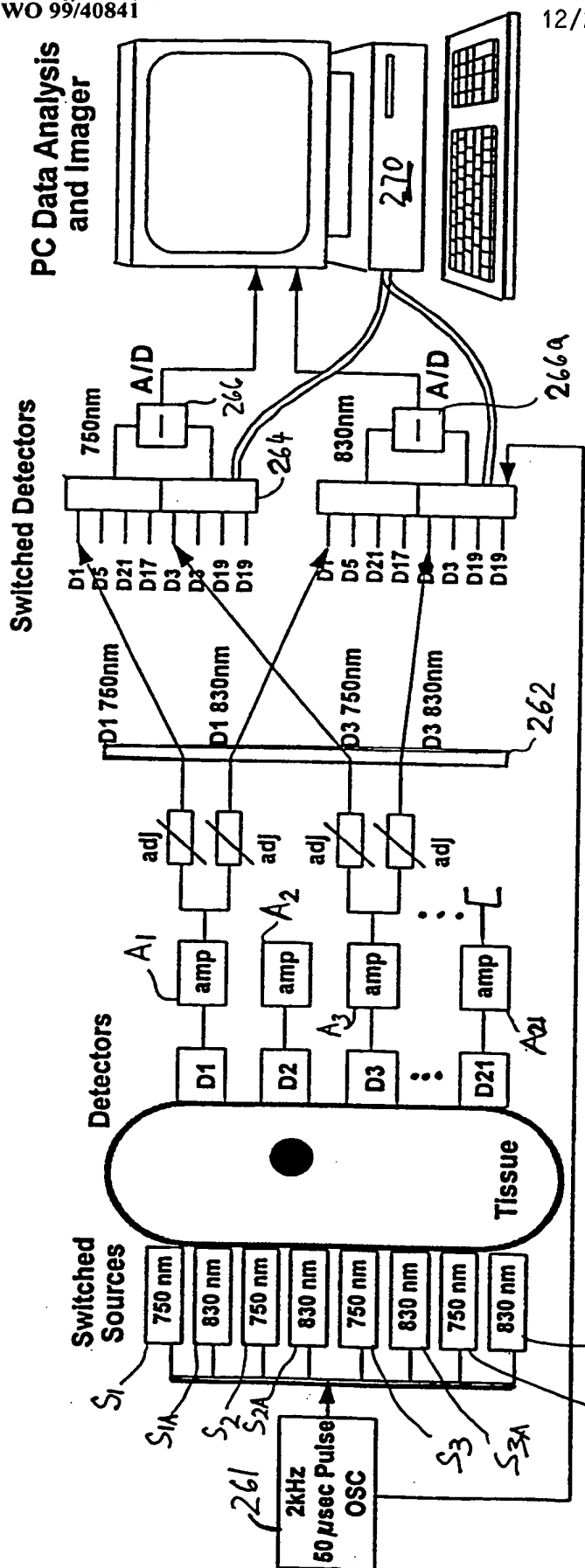


Fig. 8

**CIRCUIT CONFIGURATION FOR
TIME MULTIPLEX AMPLITUDE CANCELLATION IMAGER**

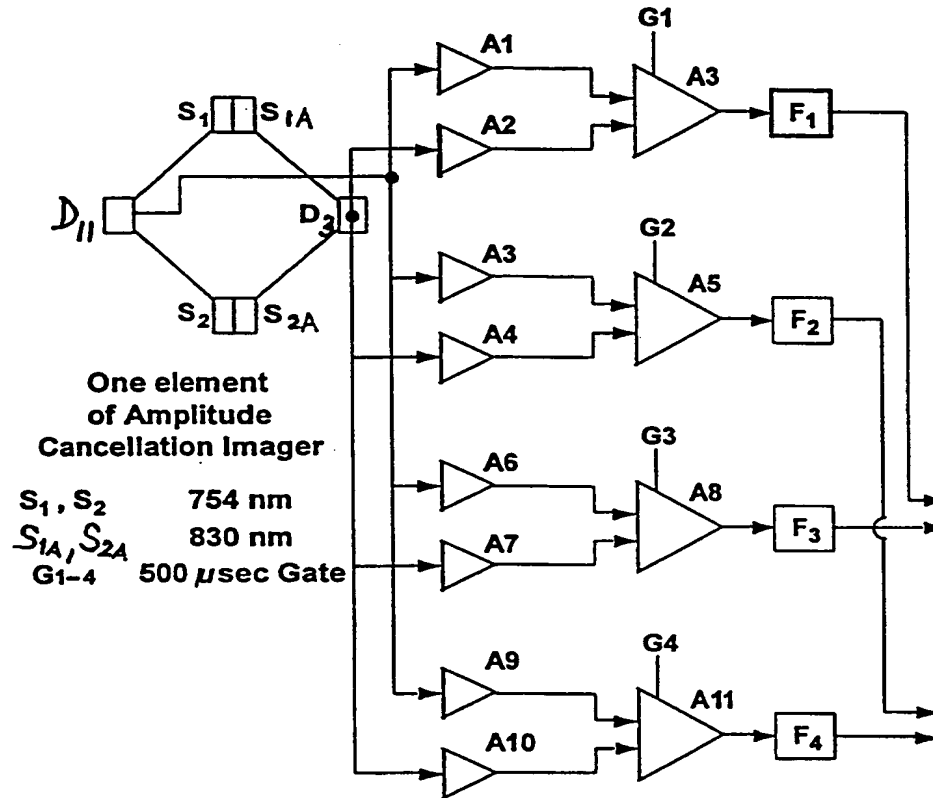
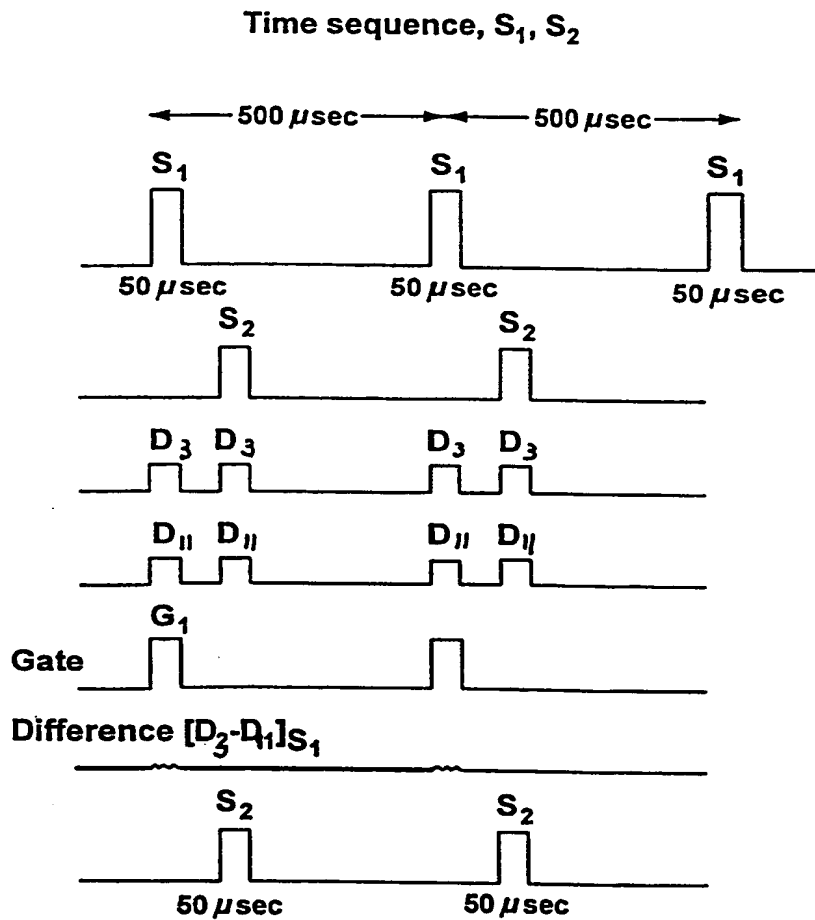


FIG. 8A



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FIG. 8B

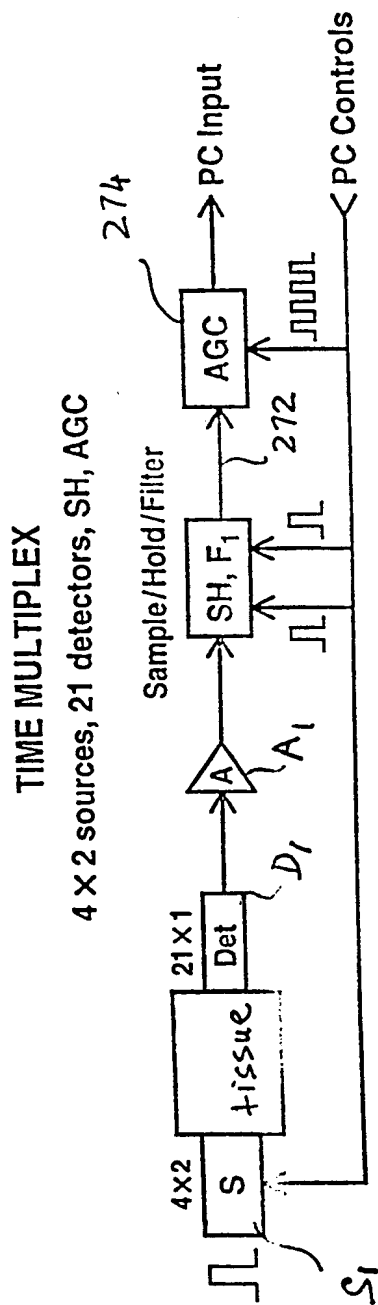


FIG. 8C

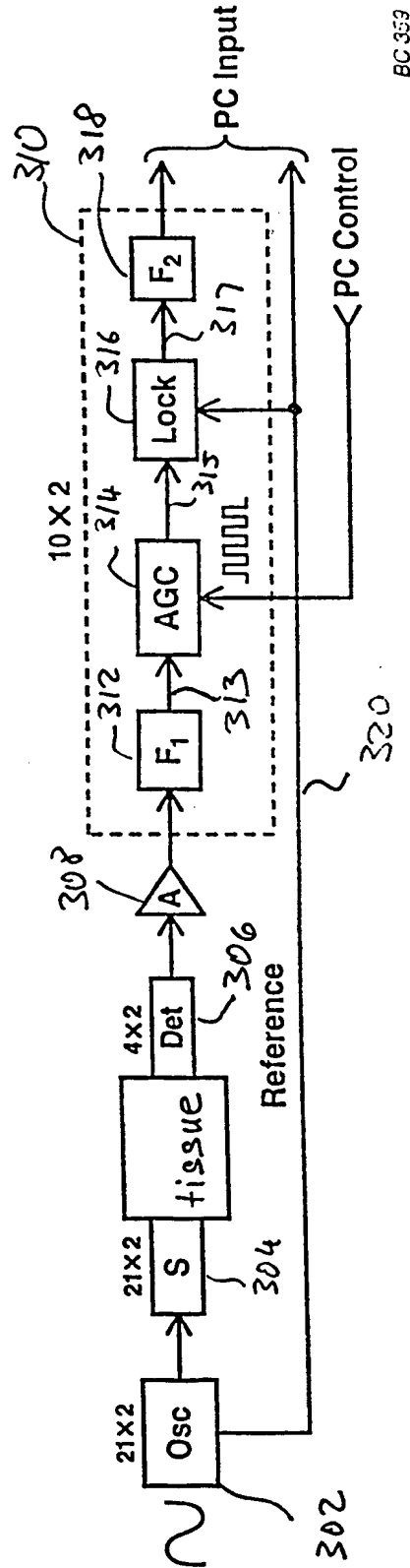
260A

000277 2722960

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FREQUENCY MULTIPLEX

21 X 2 sources/oscillators, 4 detectors, 40 filters (high/low), 20 AGC, 20 Lock-in



BC 359

FIG. 8D

300

000277" 21122960

WO 99/40841

09/622112

PCT/US99/03030

Dual Wavelength NIR Phased Array Imager 2D Vasculogenesis VS Hypermetabolism Imagery

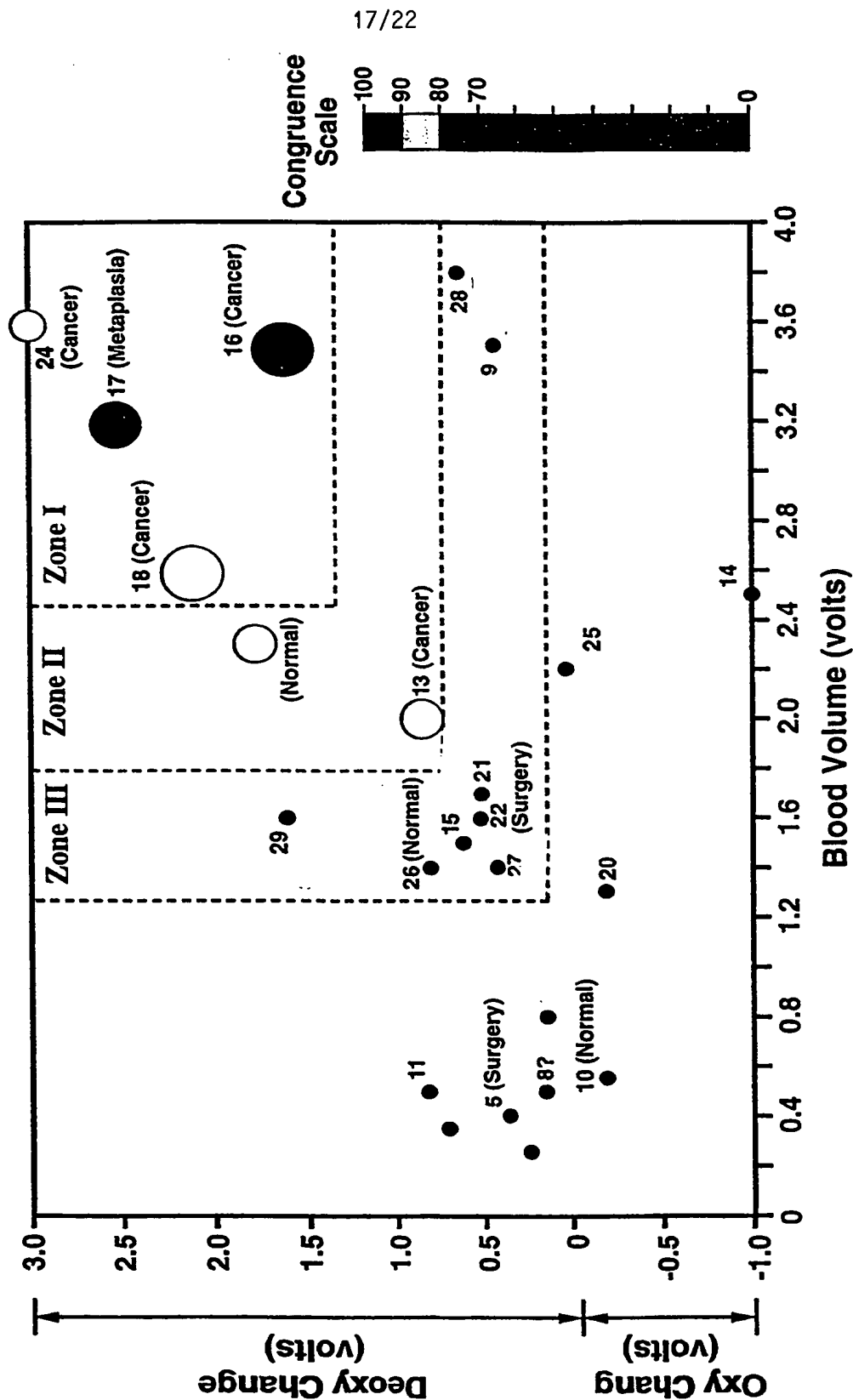


FIG. 9

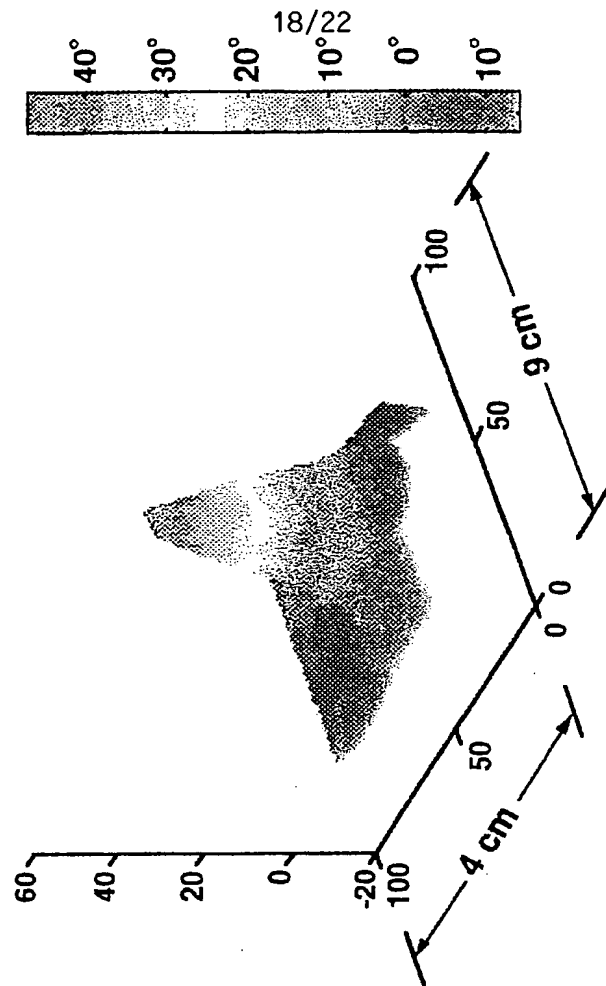


FIG. 10B

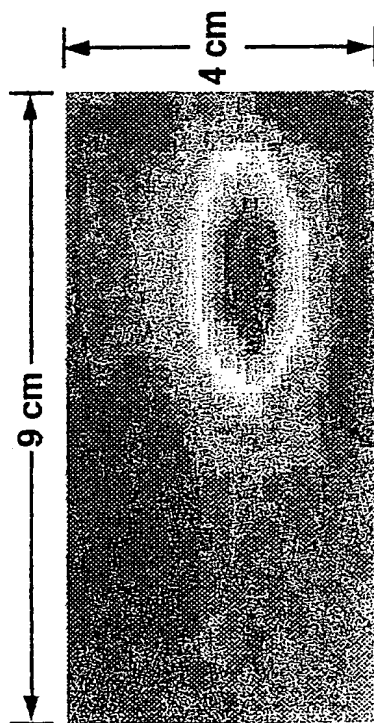


FIG. 10A

000211 21122960

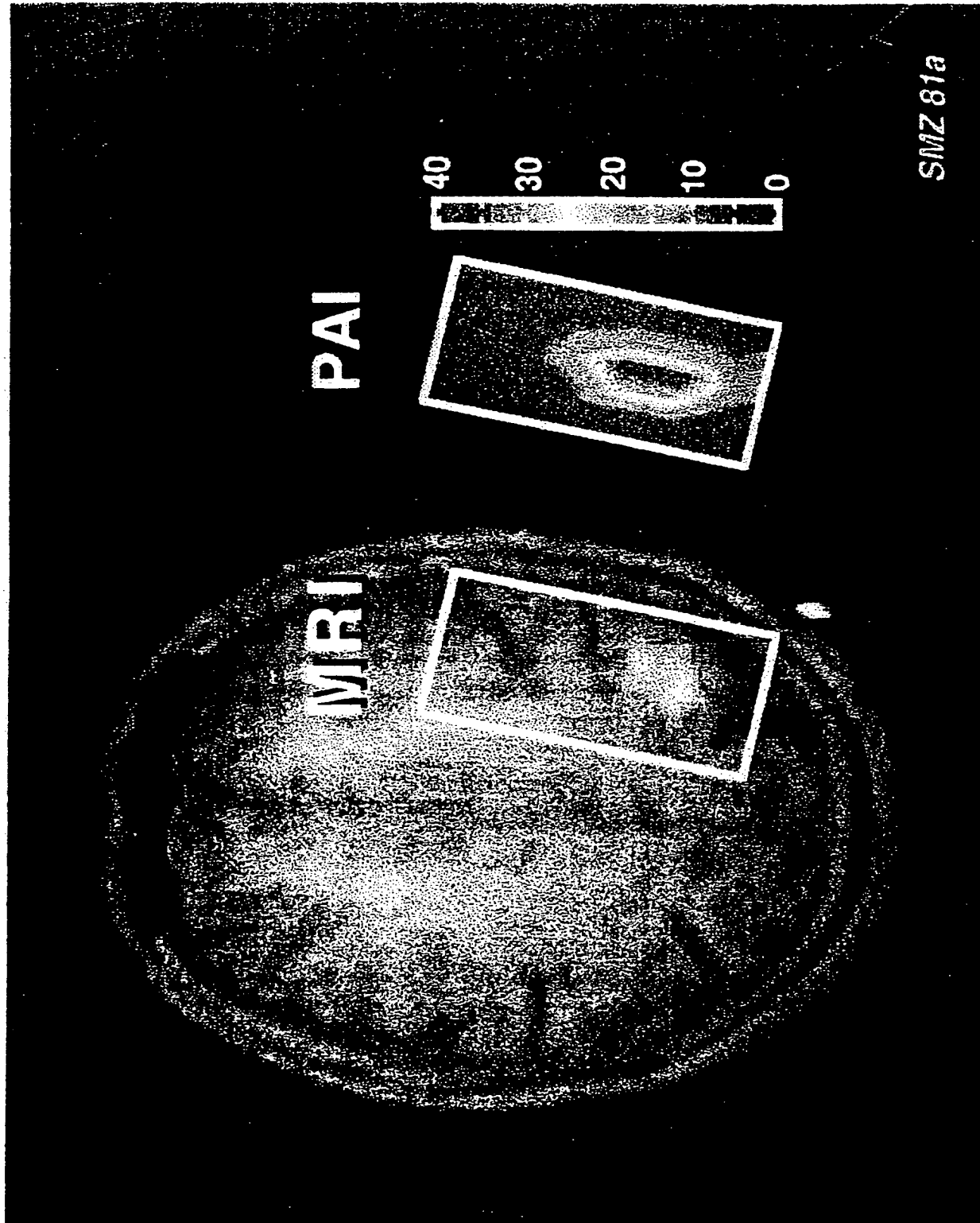
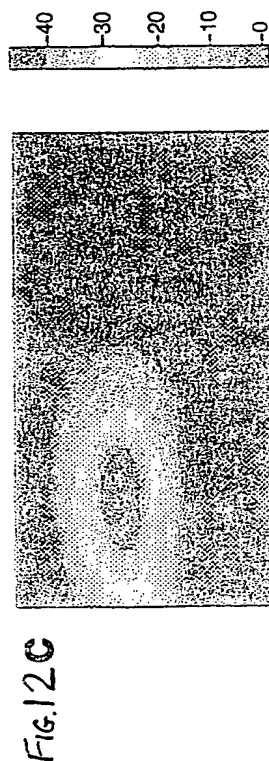
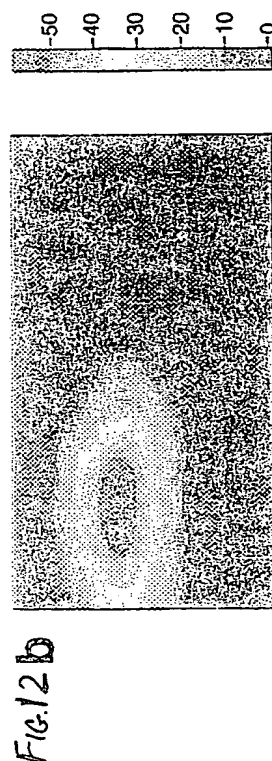
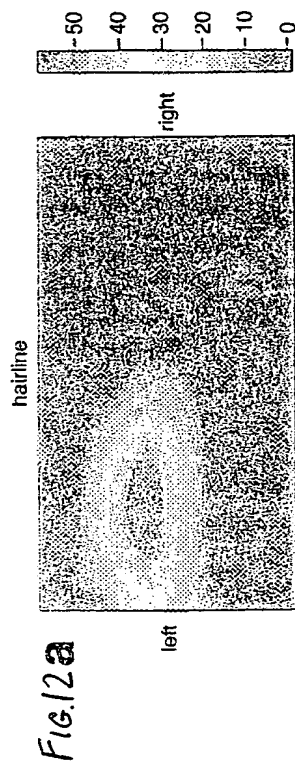


FIG. 11

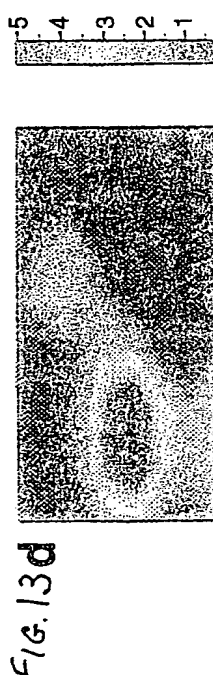
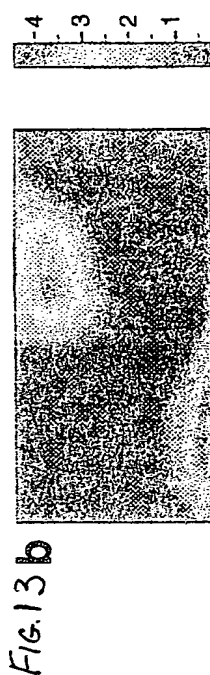
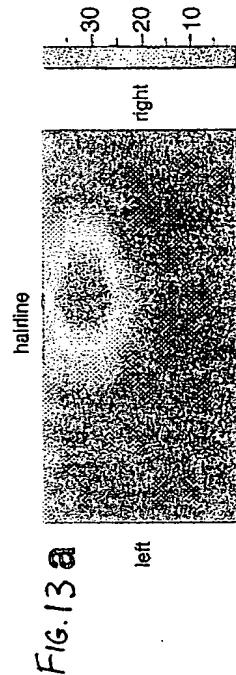
Phase Array Repetitive Study on Forehead

(backward spelling 30s minus rest 30s)

(backward spelling 30s minus rest 30s)



Dipti 1b



eyebrow

KW 2

A

B

BEST AVAILABLE COPY

Location of Signal Focus - Dipti; Phase

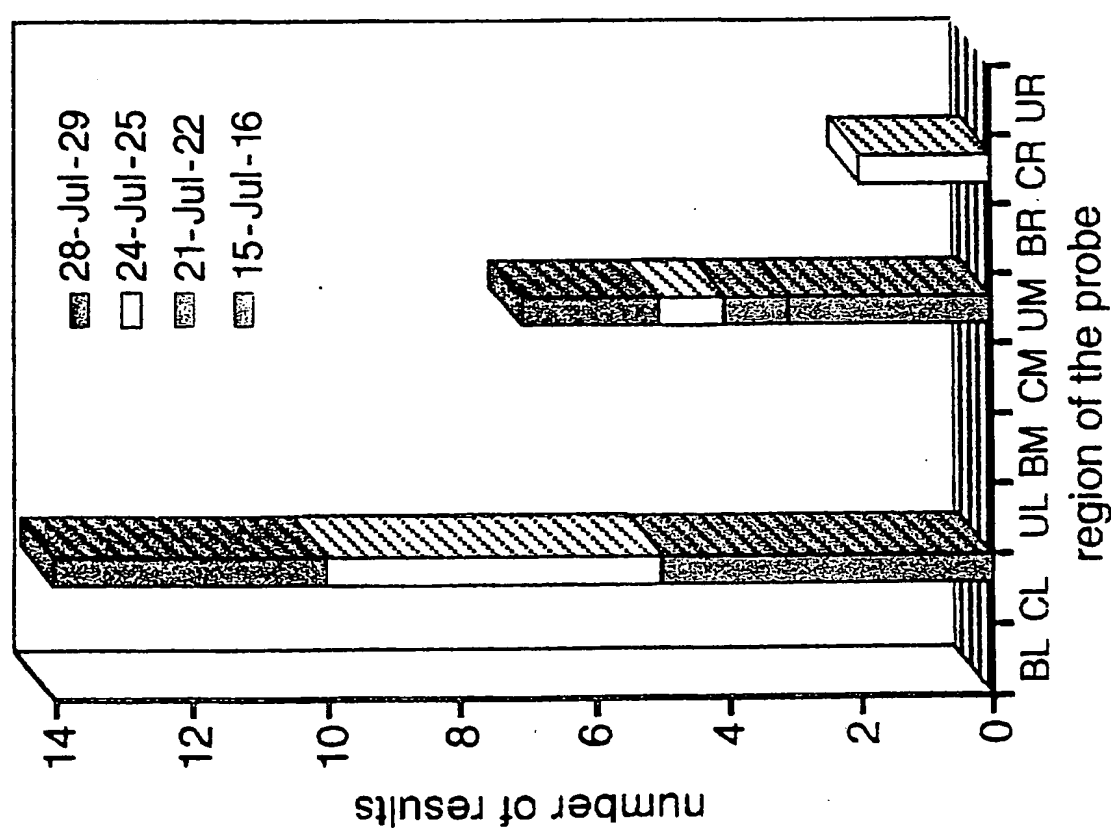


Fig. 14A

Location of Signal Focus - Kate; Phase

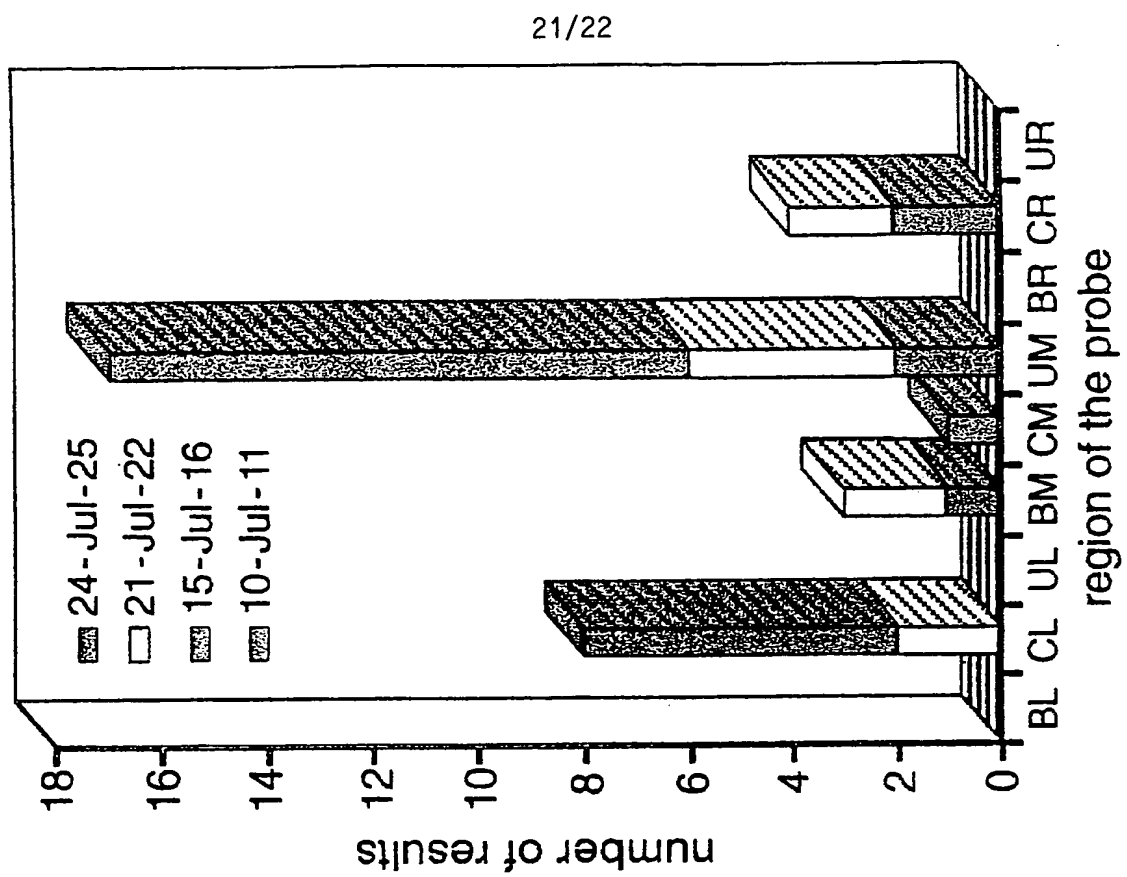
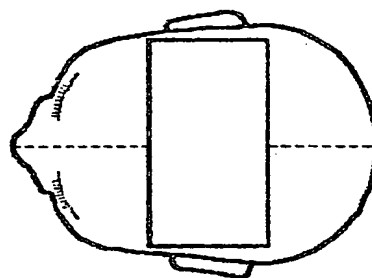
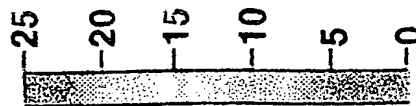


Fig. 14B

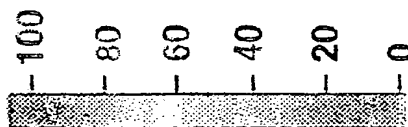
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50 MHz Phased Array Image of Baby Brain 7-day-old premature baby (9/18/97)

Stimulation of left finger
(spontaneous kicking)



Stimulation of right finger
(no spontaneous kicking)



SMZ 10;

Fig. 15A

Fig. 15B

BEST AVAILABLE COPY